AMENDED CLAIM SET:

1. (currently amended) A coagulation spun structure comprising single-wall carbon nanotubes containing no binding agent or carbonaceous impurities, the structure swelling by less than about 10% in diameter when immersed in water and being produced by forming a uniform suspension in liquid of single-wall carbon nanotubes made from carbon monoxide at a pressure of at least 10 atmospheres, coagulation spinning the suspension to form the structure, submitting the structure to tension, and annealing the structure under a state of tension.

2. (original) The structure of claim 1, wherein the structure comprises fiber, ribbon or yarn.

3. (original) The structure of claim 2, wherein the fiber, ribbon, or yarn forms a winding on a mandrel.

4. (original) The structure of claim 1, wherein the single-wall carbon nanotubes have an average diameter in the range of about 0.6 nm to about 0.9 nm

5. (original) The structure of claim 1, wherein the structure further comprises an electromechanical actuator, a supercapacitor or a woven article.

6. (withdrawn) The structure of claim 1, wherein the structure forms a main hydrogen storing element for a hydrogen storage device.

7. (currently amended) A fiber, ribbon or yarn comprising greater than about 90 weight percent carbon single-wall nanotubes, wherein average diameter of the single-wall carbon nanotubes is about in the range of about 0.6 nm to about 0.9 nm, wherein said fiber, ribbon or yarn is produced by (i.) forming a uniform suspension in liquid of single-wall carbon nanotubes, free of carbonaceous contaminants, made from carbon monoxide at a pressure of at least 10 atmospheres, (ii.) coagulation spinning the suspension to form the structure, (iii.) submitting the structure to tension, and (iv.) annealing the structure under a state of tension.

8. (cancelled).